On the Insensible Gradation of Words, by J. P. Lesley.

What practically happened years ago to every fossil-namely, to be studied in isolation, its surroundings and alliances unknown, is still to a great extent, the fate of those fossils of the intellectual world, words. When a word spoken by the people on this side of the globe is seen or heard to be like a word spoken by the people on the other side, if the meanings attached to its duplicate utterance can be allied, and especially if several such alliances can be catalogued, although merely as bald facts, ethnological reasoning upon origins and migrations is at once proceeded with. It cannot be denied that the science of comparative philology, although by no means in its infancy, labours under the defects of this rude method. Its grammars indeed are getting to be finished and proper tools for the scientific workman, but its vocabularies are still of a barbarous and impracticable kind, mere museums of popular curiosities. It still remains a subject for future demonstration, that in philology, as in paleontology, the boundaries of genus and species are to be accounted conterminous; that the organic forms pass into each other by almost insensible gradations; and that not by hazard but by plan; and finally not by a plan dependent upon the merely accidental variation of radical elements, but on a plan of the variable and alternate development of members of a complex structure.

Philology, as to its history, has three departments. First, the purely organic, containing all such involuntary or animal utterances, as the different species of men make, for the same natural reason that different species of animals quack, cluck, crow, scream, bark, bray, howl or roar, each with sounds fixed by the quality of its organs and by the emotions of its inner nature. It is to be expected that the child's organs will utter modifications of a given sound uttered with the same intent by an adult; and that one child will prefer guttural and another child labial utterances. It is reasonable, also, to expect that the African, the Malayan, the Esquimo, the Germanic groups of languages will be radically characterized by different soft and hard expressions, by liquid prefixes or guttural affixes, by sibilants, chucklings, and murmurs of their own, as we find they actually are. The study of this department has been vigorously prosecuted in one direction by able men, among whom, in this country, Kraitzer and Haldeman may be named as taking the lead. These have pointed out a multitude of true natural expressions. They tell us, for instance, that the Latin ex, K, S, and the English ou-t, may

be known by the very sound itself to mean expulsion from the inside outward. And so of many other words. But the range of this investigation has been hitherto kept narrow by the neglect of the other direction in which these studies should move on. No one has yet seriously taken up the true characteristics of natural language, such as the clucks of Oregon and Caffraria, the final K of the hypoborean race, the infantine TL of Mexico and other local regions, the softly vocalized finals of Southern Europe, the utter abandonment of the Polynesian race to vowelism, the monosyllabic humour of the Sinitic stock, to study these in the same spirit with which Gardner and Nuttall studied the sounds of birds; to study them, in fact, in connection and in harmony with other specific differences of men not as men, but as animals. Yet until this is done, comparative philology has obtained no starting point.

The second department of philology is that of pure Bardic or Mythologic words—words which are to be studied as *inventions* and not as *involuntary organizations*; to be regarded truly as fossils, scattered, fragmentary, inverted, pseudo morphed; and, when understood, instructing us far more likely about migrations of mind than of body; rather about the exodus of priesthoods and sects than of races; about a picturesque, mysterious propaganda of symbols by priests and their initiated, and not about the carriage of household sounds, war cries, or love whispers, from one locality or habitation to another, by men still half animals.

And the third department of philological investigation deals with these same empirical constructions, these originally crystallized bardisms, not in their first forms, but in their secondary or sedimentary condition, as words broken down, pulverized, readjusted and cemented; as words with some of their elements abstracted and with new elements infiltrated; tinged by climate and social habits, and metamorphosed by the logic, art and science of successive generations. To use a geological simile, there are many primary regions of philology like Bretagne and Western Ireland, Northern Spain, Dalmatia and the Caucasus, Ceylon, New Holland, or any other remote and secluded lands, where the elementary sounds of the ancient wordmakers still present themselves for comparison and analysis almost in their original phases. On the other hand most of the languages of the world and all the languages of the historic, artistic and scientific nations are of a genuine secondary order and need to be studied first as to their grosser ingredients, and these again secondly in a finer analysis. And one object of the charts presented here is to show in

reference to this last, that a few elements of a primary order are everywhere employed in language as in chemistry, to construct elements of a second order and a third and a fourth, by a few simple laws of change, in such a series of gradations, that any word out of the thousand used commonly by any people may be selected indifferently and discussed with the same results as any other word; that even any given compound word will be found present in some well recognized form in nearly all the languages known, and yet will have different meanings in most of them; that there is therefore not the most distant approach to a common or universal language for all mankind beyond the fact that all use the same elements in the same endless round of composition, and cannot get out of this round; that the presence of the same words in two or more languages is therefore no prima facie evidence of kinship between the two or more tribes speaking those languages; that, therefore, ethnology cannot be considered as having yet taken hold of philology as one of its tools by the right handle, or turned it to any useful purpose beyond the determination of very local questions. It can be shown, probably, that the study of philology must be distributed between-first, a strict investigation by expert naturalists into the primary animal sounds made by the species or varieties of mankind; secondly, an investigation of those words in hieroglyphic, classical and mediæval history and mythology which remain to represent those old introduced non-animal, transcendental ideas by invented signs, by arbitrarily attached sounds, and by mysteriously arranged syllables; and thirdly, the classification of all words used to express such ideas in modern times, according to the laws now so well understood and obeyed in the study of chemical elements, fossils, and objects of the actual nature.

The charts appended to this paper will speak for themselves in explanation of these views. They represent the gradual passage, through groups of forms, of the names which mankind have given to the five objects, MAN, HEAD, HAIR, HAND and STONE, in 200 languages, more or less. They have been made up from the Russian Comparative Vocabulary of Catherine I, from the Mithridates, from Comparative Vocabularies of the dialects of the Caucasus, from Hale's Volume of the Exploring Expedition, and a few other sources of information open to all. Very few of the African words, however, are given, and only enough American words for comparison, as the object was to illustrate the subject, not to furnish a perfect specimen. In selecting letters the expression of the sound has been kept in view as the primary object, where it did not conceal the graduation. Hence

K is used for C, TJ for Tsch, &c. but no rule has been exactly observed throughout. Sometimes Sh is expressed by S, at other times the importance of the H is shown by writing it in full.

The chief design has been to show how by prefixes and affixes, by the dropping out of medials, and the rejection now of the first and now of the last element, an almost infinite series of changes not only can be permitted, but have actually realized themselves in the languages and dialects of the earth; how that no idea can be technically said to be expressed by man labially, or dentally, or gutturally, or nasally, seeing that the very same series of dissyllables which in one direction ends in a single labial, is sure, when followed in another direction, to end in a dental, and when followed in a third direction, to end in a guttural or nasal; while the very same simple guttural, dental, or labial, reappears in the different series as a vehicle for different ideas. To illustrate by an example or two:—

HAIR, from such double full forms as GURuGURu (197), CyPy' HUiR (153), tJe'RaChe'R (159), &c., passes down through one long range of changes to become a simple labial Fa (164), and through as long a range of changes in another direction, to become a simple dental oT (69). MAN passes on from similar full forms down to such simple forms as Mo, Tshu, or zoi. STONE becomes To, Ko, aL, aN, iSH and öFe. On the other hand, and to illustrate the other phase of the law, CaLGaSSen (137) means Hair,—KuDaCeS (58) means Man,—and CiT'XiN (158) means Head. MieZ (56), MeS (57), mean Man, while MaZda (171), MaZ (107), mean Hair. HaiR in English and XeiR Hand in Greek, GoiR Man and KeR Stone, cannot be distinguished philologically. Many other like instances will appeal to the eye, without further remark; and would be innumerable had we some scores of such tables made out.

It follows, from facts like these, that two theories respecting the great body of monosyllables must be adopted. First, they do not belong to the organic primary sounds by which our involuntary animal nature utters itself, and so their study in that department will be a failure. It is evident that a stone or a bird cannot relate itself indifferently to all the organs of speech in turn, if that be the kind of relation by which it gets itself named. If, for instance, its original organic name, not invented but simply exasperated by all mankind unconsciously, be TO, then it could not be KO, nor could it be ISH, nor AN, nor öFe. Are these then alterations? but if that be once granted, the science of Comparative Philosophy commits suicide. Secondly, the great body of monosyllables so far from being originals

are fragments. All language is a breccia, or rather it resembles the great fossiliferous lime-rocks of the coal measures, full of the parted joints of encrini, once connected into living, waving, propagating stems and flowers of stone. In the construction of charts like these one can see how the stems came to be disjointed, and the isolated discs to be so strewn hither and thither among the secondary sediments of speech, the dialects of different tribes. To illustrate this: here is one actual formula of fragmentation.

Here we have the reduplicated form of the compound guttural, labial and lingual, and the dropping away of one part after another, until nothing but the end remains.

The selection of these five particular objects of speech was made because they are among the most familiar to men, and have simple or unequivocal meanings, and therefore ought to be named alike in all languages, if such a fact were possible. Yet we see how they merely play different groups of runs upon the same gamut. They were selected also as good examples of a principal or type arrangement of the elements in the full form, Ka Ba Ra Ta, the historical meaning of which I have endeavoured, in papers read before the American Association, to illustrate. There are undoubtedly many such type forms, all of which can be wrought out by this method of visible classification.

The positive results to be arrived at then seem to be these—1. The same radical sound, Ba for example (modulated of course as Pa, Fa, Va, Wa, Ma), can be found in a large majority of languages, standing as a name for a majority of the objects of thought expressed by speech.

2. In the midst of this apparent wilderness of confusion, a very evident order will come to view, when all the sounds employed to represent one idea are classified in vertical columns; and this order will consist in their various groupings. Each idea is indeed expressed by all the signs known to the ear of man, but is most often expressed, or in other words is expressed by the greater number of mouths, in one kind of way, that is, by one group of analogous words larger than all the other groups. The idea will be recognised as having, so to speak, a greater run upon one set of elements or combinations. And we may hope that as Lesquerox has succeeded in recognizing each

successive coal bed, not so much by any individual fossil, as by some different group of plants, the plants themselves being nevertheless found in higher and lower beds than the one so marked, we in like manner will be able to distinguish languages ethnologically by this grouping of forms of words common to all, under special ideas.

- 3. Charts like these prove the reality of certain facts in philology sometimes doubted; the reality, for instance, of derivative reversion; as in the Greek 20%, Hebrew 'pp; Go-bo-l, becomes Go-lo-ba, &c. This will be of importance in discussing the kinship of neighbouring nations with inverted names such as Dorians and Rhodians, Italians and Latins, Berbers and Arabs, &c. I have pursued my own researches for some years with this in view as an established fact, that the boustrophedon manner of writing is a reality in etymology and ethnology, as it was in mythology and common history. It made no difference to the inventor of a word whether one symbol or another came first, for he did not write to express a previously known sound (as we do), but set down the symbols of his ideas and afterwards accepted the sounds they gave him. In other words, in this department of philology letters make words and not words letters.*
- 4. It seems to be evident that the liquids and dentals, as a rule, replace each other not by alteration but by alternation, for none of these columns worked well until the L's and R's were put under one head and the Ts, Ds and N under another. There are, of course, many exceptional cases of true organic mutation.—In like manner it seems clear that the terminal NG of many languages is not a mere nasality, but that the G is the relic of a lost syllable beginning with a guttural.
- 5. The loss of consonantal elements is seen to be indicated by the presence of diphthongs or groups of vowels, and especially by the concentrated diphthongs O and U. Also, the fact appears that not only any diphthong, but any strong vowel, can in time come to replace not the labials only but any one of all the consonants; and our only salvation from this utter confusion to result from such a law—a veritable law of disorder or decomposition—is a systematic and general classification of words, not according to men's theories of etymological relationships, but in a mechanical way, as we classify fossils and

^{*} Dr. Pickering has drawn my attention to the curious adventure, reported by Hale, of certain New Zealand savages who were drifted to another and distant island, and commemorated their salvation on its shores by deliberately reversing their whole vocabulary, pronouncing every word backwards.

minerals, in tables and in columns, to let their groupings reveal themselves, and then we can begin again with our philological arguments on ethnology.

Some of the Changes through which the Word STONE passes in

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РТ
                            Egyptian, shaft of a column, (Bunsen)
   Pa T
                      (13)
La B
Te B
                            Lesgin (antsug) Caucasia,
Di Pa
                     (171)
                            Pehlvi
Te Bou
                            Karib
Tu Mu
                            Sapibocoro
                                          American.
Ru Mi
                            Quichua
La Pi S
                            Latin
   a S
                            Greek
La
                      (23)
La Pi De
                            Italian
   Pa Ta
          R
                      167
                            Moultani
                      168
                            Bengali
   Pa aT
          R
                      169
   Pu ⊙u R
                            Decan
                                          India
   Py TTeR
                            Malabar
   Pe T
                       21
           Ra
                            Romaic
                       26
   Pe D
                            Portughese
           Ra
                       29
   Po r
           Ra
                            Vallzan
   Pi eT
           Ri
                       46
                            Volosch (Walachian)
   Pi er
                      (28)
                            French
                      (27)
(27)
25
   Pe i
           Ro
                            Romance
                            Spanish
   Pi o
              Na
                Na
   Bo i
                      162
                            Kurile Isles, E. Asia,
                      126
   Рj
                            Tomscago ocr
                                                      E. Asia.
                      125
   Fu a
            LLa
                            Tavgin
                      188
                            Magendie, (Australia).
   Fa
       TTu
 ü Fa Tsh
                            Kamschatka (Joznye)
                                                     N. E. Asia.
   Ua Tsh
                      158
                                         (Tigil)
      Tu
           R
                        80
                            Dugor \ Caucassian
       Do
           R
                                                               (N. E. Asia.)
                        79
                            Oset
                                                     RTo
                                                               168 Tangutch
       Du R
                                                70
       Ta RRua
                        15
                            Basque
                                                     RoT
                                                ďΩ
                                                               Coptic (Sand.)
                     (171)
                            Pehlvi
       Je Re Ra
                                                     Li@os
                                                               Greek.
                                                \sigma_2
                      145
                            Lamut N. E. Asia.
       Dzo La
       DzjuL
                      144
                            Tungus Ocotsck Sea
       Jo L
                       64
                            Tshjobasch in Russia.
       Dzo Lo
                     (143))
                            Tungus
                     (141)
       Sho Lo
                            Tschapogir
       Zhu Lo
                     (146)
       Jio LLo
                     (141)
                            Tungus
                                             N. E. Asia.
       Zho LLo
                      139
                            Tungus
       DiSo LLo
                       138
       Ja
           Lo
                            Tungus
       TshaLo
                       135
                            Mongol
       TsheRu
                       117
                            Casi-cumit
                                           N. E. Russia.
       TshaR Tsh
                       119
                            Acuschen
                      137
       TshuLu N
                            Calmuck
                                        E. Siberia.
       Sha Lu N
                       136
                            Brat
       Tshe Lo N
                        38
       STi R
                            Islandic
       STa ai
                        36
       STo a
                            Cimbric
       ST
            \mathbf{a}
               N
       ST
            ei
                            German
               Na
       ST
            ai
                            Teutonic
       ST
            ai Ns
                        30
                            Gothic
                      (40)
       ST
            eo N
                            Dutch
                                                  Europe.
                      (13)
       ST
            e
               Na
                            Celtic
               Ne
       ST
                        32
                            English
            0
       ST
               N
                        31
                            Anglo-Saxon
            a
                            Old high German
       ST
            e
               N
                        34
       ST
            eeN
                        37
                            Danish
       ST
                        39
                            Swedish
            e N
       ST
            i NG
                        41
                            Frizian
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the various Languages of Asia, Europe and America.

```
Ce T Rus
                       12
                           Susdalian (Europe)
Ha DzaR
                       85
                           Arabic
Ge Je R
Hi Ntzo
           Zo
                      118
                           Andü (Siberian)
Gi T
                    (152)
(27)
                           Lumpocol ,,
Co Du
                           Romance
Ge D
                      58
                          Lopar (S. Russian)
Ca i
       LLe
                     116
                           Tuschet
Ce
       Ra
                                      Siberian Tartar
                     115
                          Ingreshet
       R
                      45
                          Albanian (Greece)
Gu
       L
                          Lesquiz-dido (Caucasus)
Ca
       Lo C
                      16
                          Irish
Ca
       La Zh
                      17
                          Gaelic
Ca
       RreG
                     (18)
                           Welsh
   Tu La K
                     114
                          Tschengis Tartar.
       Ra K
 u Ju
                          Greenland Esquimaux
       Ro CCo
                      24
                          Neapolitan
       Ro CK
                          English
```

Te R P

Comanche

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Cu
                               Tscherimiss Russia N. E.
                               Vogul
Cj
                               Wenger (Hungary?)
                          47
                        (40)
                               Dutch
     Ui
                               Tscherimiss (Russia N. E.)
                        (71)
70
                               Oseti, 2. )
     U
                                          Caucasus
Ci
     В
                               Oseti, 1.
Со
     В
                        (67)
                               Vogul, 2.
\mathrm{C}_{\epsilon}
     В
                          61
                               Mord
Ce
     В
                          62
                               Moscow?
     Bi
                              Corel
Ci
     Bi
                        (55)
                              Ostland
                                                  Russia
Ci
     Bi
TShiBi
                          54
                               Tschjochous
TSi Bi
                        (55)
     BBi
                              Ostland
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Ta NGa	131	Taigin) Peler Presion
Ta NGaiT	(130)	Carassin Polar-Russian
Tu NuNG	,	Lake Macquarie (N. Holland)
De Nai	123	Samoiede Tschuktsch N.W.Am. Ui Ga K
i NGa	142	Ammonian (107) Co Co P
i Na	141	Tungus Maltese 86 Ha G Ra
Sa NGa	(177)	Malabar Abassinian 113 HauC
Se NG) ` ′	Abassinian 112 Ha C
Sa NG	} 76	Persian Illyrian (3) Cu C
Se NC	, 77	Koord Osetian, 3, 4. 72 Co χ
Se NG	102	Bocharian Osetian, 5, 4. 72 Cuux
Sa Xum	(22)	Latin ——Romance (27) CoCS
Sa SSo		Italian (27) Coos
	(23)	
Shi Sh	149	Cotob Asia
Shi Sh	150	Assan (Circle)
Shi	164	Chinese (Cipaisk)
i Sh	161	Japanese (Eponsk)
Zha	(146)	Tschapogir N. E.
i Z	59	Zuren Asia. Cabarda My Vy
i Z	60	Permian Caucasian 111 \ My VVa
i Z	65	Votet Camashin 132 Fi
Tsi S	(27)	Romanch Carassin (130) Py
TshyS	152	Lumpocol Samoid (128) Py
Tye S	151	Inbat Coibal 133 Pi
Ta S	88	Turian Samoid 127 Po
Ta S	89	Kasan Samoid 129 Po
Ta S	90	Mestsh. Osetian (75) Pj u
Ta S	91	Bashkir Samoid (123) Pu i
Ta S	92	Nogai Polynes. 197 We i
Ta S	93	Rodac Samoid 121 Pa i
Ta S	94	Tobolek (Pa o
Ta S	95	Tshatse Samoid 120 Pa Co
Ta S	96	Tschol. Manchu 163 Fe χe
Ta S	98	Cusnet Tschjoc. 157 Fu Go N
Ta S	99	Barab
Ta S	101	Teleutsch
Ta S	103	Khivan
Ta S	104	Kirguis
Ta S	105	Turcoman
Ta S	106	Ecut
Ta Zh	97	Enesei Tartar
ax To S)	
/	} 58	Vogul on Tscherdyma
αχ Ti T Ge T So	48	Abari Caucasian
m a	51	Lesquis dzar
λε Τ So	52	
en m	69	,, χunzag) Vogul on Berezou
70 00	67	D
αχ Το Τ Ho Ta Tai	01	,, on Bercotursk.
Te Te Te		Core (New Mariae)
Te TL		Cora (New Mexico)
Te TL		Mexican
		Koljusch N. W. coast America
i Ta	/1995	Brazil (3 dialects)
To i	(128)	Narymscargo ocruga (Samoyed)
То	(71)	Ostet on the Naryma (N. Russia)

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Ci Pa
                      87 Assyrian
  Ce Fo
                     84 Syrian
  C Ua
                     109 Imeretian (Caucasus)
                                                 S. E. Asia.
  Ce Fa
                     110
                         Cuban
  Ce Fa
                     108
                          Cartalin
  Ce Fa R
                   (107)
                          Armenian
     Ua L
                     155
                          Corean
                                             N. E. Asia.
                         Kamschatcadale, 2
     Ua Li
                     159
  Gi Be R
                          Sidney
                          Muruya
     Bu Ra
     Ma Ra Ma
                          Peel River | New Holland
     Yu Ru BaNG
                          Bathurst
     Wa La NG
                          Wellington
     Ba Re
                     166 Tsygan (Himalaya?)
                         Malabar (India)
Cornish
N. W. Europe
     Be R
                   (177)
                     19
     Me a
                      14
     Ma o
                          Breton
     Ma o
                    (18)
                          Welch
  aC Mu o
                     42
                          Lithuanian
  aC Me
             NS
                    (43)
                         Lettish
  aC Me
            NS
                     44 Crivingo Livonian
  Ca Mj
            N
                     (3) Polish
         е
         me N
N
N
N
N
N
N
  Ca M
                     (3) Illyrian
  Co Mi
                       8 Polabsk
                       0 Russian
  Ca Mi
                                            E. Europe.
  Ca Mi
Ca Mi
                      1 Old Schlavonic
                      4 Bohemian
                      5
  Ca Mi
                          Serbian
  Ca Mi
                      6
                          Wendish
  Ca Mi
                      7
                        Sorabish
                      11 Malo-Russian
  Ca Mi
                      2 Slavo-H
9 Cashub
                         Slavo-Hungarian
  Ca M
  Ca M
            N
                    153 Corean (E. Asia).
  Gu FF
            N
                     82
                         Zidonian?
  Oi F
            Nu
                      83
                                             S. W. Asia.
   a F
                         Chaldee
                                    (אכך)
                     81 Hebrew
   öF
          e N
   öF
                    (27) Romanch (S. Europe).
          e
                               Stone
  Ko
                               Flint
  Ko Va
                   Hungarian
  Ко Мо
                               Sand
  Kö Ve
          CK
                               Gravel
    00
           Ne
                          Sahidic Coptic
                          Memphite Coptic
  Pi. the
          ) o Ne
mase. artic o Ni
                          Sahidic Coptic
          e Ne
                          Coptic
Pi, ,,
          aL
                         Egyptian (Bunsen Vol. 49).
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Before passing to another example, a few words seem necessary here. It is evident that the scheme of radicals to represent the above table of words is the following:—

T P LP LPT PT PTR TR TRN (TRP) once TR K R KK KB KBR BR KR K RK K K

It is equally evident that this scheme would be improved, if it were not actually completed, had we the words meaning *Stone* in all the other languages of the earth, four hundred more or less. In which case assuming only the three principal contacts and keeping within the range of triliterals, it might be represented thus:—

PT PTK PK TK TKP TP KP KPT K T TK P KP KP P KP K K K K K TK TK T T T T

But if, as we see by the above chart would take place, instead of only the three primary contacts P, T, K, we must add the lingual L or R as distinct from T, and in fact a fourth primary element, while N plays a prominent role as primary grammatical affix, it is easy to imagine the great extent to which the perfected scheme will descend. The point of remark, however, is this:—the scheme is not one made up artificially like a row of arithmetical numbers or algebraic figures, to see how many different compounds of three or four or five elements exist arithmetically in the abstract; on the contrary, it results from a process of alternate growth and decay, of alternate additions and elisions, or of alternate expansions of expression and contractions, under the influence of two very different, opposite but co-ordinated laws of speech, by one of which the human mind endeavours always to enlarge and make more precise its words for better comprehension, and by the other to shorten and sweeten them for use. Thus language has a phyllotaxis of its own, by which its stem is regularly occupied to the utmost possibilities of the occasion.

As to the aboriginal meaning of these words for STONE, or which came first, or what radicals are original prefixes and what are affixes, these are recondite questions not involved in this discussion, and perhaps impossible to answer.

It may, however, not be uninteresting to point out as a possible key to some of these riddles, the form PTR, PTL, contracted to P'R, P'L, (Romance Peiro, Coptic Pial, c. Boina, Piorna, Pjun, Fualla, &c. &c. in the chart), which explains at all events the Greek π expa, as P- Tor, the tor, the tabor, the taurus, the tower, meaning the rock or stone; and shows why the Apostle of the keys was chosen to bear the church. The sermon was on the mount. But these suggestions are foreign from the subject of this paper.

The Greek λιθος seems to be as true an inversion of tor, or tel, as the Tangutch RTo evidently is. And here mention cannot be omitted, however casually, of the intimate mythological connection between the ideas of STONE and MAN in language. RT was the Egyptian, ROT the Coptic word for both, while ReT meant form, species, sculpture; and herein lies the explanation: the principal bardic use of stone was to represent the human form divine, whether in sculpture on the native rock or propylon wall, or as set up in ambrose stones alone or in circles, or as termini, caryatides, images, or columns in the temple. Idolatry being ancestral worship, the stone PaTaR had the same name as father, πατερ, and all standing stones were legendary giants, or patriarchs turned to stone in some past age of human magic

or divine wrath. Yet in the next chart which gives the words for MAN in the same languages (designated not by their names but by ciphers to save space) the whole grouping of the chart is different. A different aspect pervades the columns, and the prevalence of certain forms stamps a peculiar character upon the series.

Some of the Phases of the Word MAN.

```
32, 36
Ma.
                  30
Ma
      Na
Ma
      Nd
                  37)
Ma
      DuR
                  38
Me
      NeSCia
Me
      NeSCe
      NiSC
Me
      NiSCo
Me
                  33
      N SH
Me
Mi e
      NiSHa
                  39
                  35, 40, 51
Me
      N SH
MI
      N SH
                  34
      NaSH
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aN	GoShT	1	76
T	eS T	}	
D	aS T		77
D	eShT		102)
аD	eSh		100)
D	uS T		109
TS	eS Te		110
S	HeShT		77
	HaS Tal	M	172
Γ			78
L	ee		180
iR	i		134)
Tai			182
Te			161
uDa			121, 120, 75
iDa			84
eDa		1	81, 82, 83
eD		}	01, 02, 00
FeN		1	86
iT		5	00

Many of the above combinations are proven by the fact of their occurring in the same language, the same group of dialects, or the same group of well studied alliances. Many others are easily disproved by criticism, being mere coincidences. And many are probably misplaced, as to the range of their radicals in the vertical rows, and might be placed to far better advantage to exhibit the law of insensible gradation. But the reality of the law is seen from these tables to be indisputable, and the further multiplication of tables will but heighten the illustration of the law. Arrange any one of the words of the Parable of the Prodigal Son, translated by the Antiquarian Societ / of Paris into the seventy or eighty local dialects of France, and the law is at once established. The most incongruous and dissimilar forms are seen to be organically derived from one another. The French words fils and garcon and the English booby are but widely separated

fragments of a series of forms regularly graded like the words of the preceding tables. Bou-eBe, Bou-Be, Fiu, Fieu, Fi, Fe, Fail, Fil, FiL-G, VaL, VaLeT, FaNT, afFaNT, eNFaNT, eNFaN, afFaN, aFaN, eFaN, eFoN, MeNioT, MeNeGe, MaiNaChé, G-aR-ChéeN, GaRChouN, GaeChoN, GaiChoN, GouGeaT, GouiaT, Gouia, GaRCouN, GaRCoN, GaSSoN, HiL, and an abnormal form DRoLei, belonging to some other series, or to a part of this series too distant to appear more than this once among the French patois; in fact a word bearing the same relation to the English DRoLL that FiL does to FooL, that Boube does to Booby (German Bube, Boy), &c. &c. The most interesting point of this series is the change of FiL to HiL, through some lost form H'FiL or G.FiL, the reverse of which still remains in FiL.G, MeNaGe, &c. This lost form is found in other languages; as in the Dshar Lesguis Caucasian KiMiR, Child, contracted in Hungarian (as in French patois) to Gi'eR-mek, child. In the Lesguis Antshong and Chunsagh, on the contrary, we have TiMiR, the original, so to speak (through Ti'eR), of the French patois DRoLei; as in the Georgian Suaneti we have BoBosh (Imeritian Boshi) to explain the French patois BouBe, a contracted repetition of the original Hebrew form BaR-BaR, the diminutive of BaR, boy.

Stated Meeting, November 18, 1859.

Present, eighteen members.

Dr. Wood, President, in the Chair.

Judge Carleton, a new member, was presented by Dr. Bache. A letter was read from Dr. W. A. Hammond, U. S. A. dated Fort Mackinaw, Michigan, Nov. 5, 1859, acknowledging notice of his election.

The following donations for the Library were announced:—
Journal Franklin Institute, No. 407. (Nov.)—From the Institute.
African Repository, XXXV. No. 11. (Nov.)—From A. C. Society.
Columbia College Annual Catalogue. 1859-60.—From the College.
Inau. Addresses by T. W. Dwight and G. P. Marsh.—From the same.
Pasigraphie mittels arabischer Zahlzeichen. Ein versuch von Moses
Paic. Semlin, 1859.—From the Author.

Natural Philosophy, by B. Hobson, M. D. London Miss. Society, Canton, China; in Chinese, unbound.—From Dr. F. Bache.